



State of Maryland

Energy Efficiency and Environmental Impacts

Fact Sheet

- State of Maryland has implemented a significant number of energy efficiency projects in state facilities to make their buildings more useful, productive and energy efficient. These efforts make a major contribution to reductions in electric energy use, demand for electricity, direct fuel use and emissions in Maryland.
- While a majority of the project dollar investments are made upfront, the energy savings resulting from these investments continue to accumulate well beyond the project's payback period and are the result of yearly electricity and fuel savings.
- 14 State of Maryland Performance Contracting Projects will produce over \$82 million in total energy savings over their lifetimes, reducing operating costs in State facilities.
- Energy savings from performance contracting in Maryland make a huge environmental impact. As determined by Leonardo Academy, an independent non-profit group that monitors the environmental impact of energy efficiency projects, the \$82 million in total energy savings for the State equates to 961 thousand MWh in electric energy savings, 12.2 MW in annual electric demand reduction, and 4.75 million MMBTU reduction in direct fuel use. This equates to enough electric energy and demand savings to power over 80,000 Maryland households for a year and eliminates the need for a new 12.2 MW power plant.
- Reducing the demand for electricity increases the reliability of power supply in Maryland. In addition, investments in cost-effective energy efficiency measures have been shown to deliver local employment and income benefits. State of Maryland is able to spend less on imported fuels and electricity, lowering its cost of delivering products and services to state residents and businesses. This results in increased competitiveness, productivity, and profitability for the State of Maryland.
- The energy savings also help eliminate large amounts of air pollution, according to the Academy. Taken out of Maryland air will be 1.2 million tons of carbon dioxide, 3,400 tons of nitrogen oxide, 7,300 tons of sulfur dioxide, 100 tons of particulates, 36 pounds of mercury, 6 pounds of cadmium, and 76 pounds of lead. This translates into such environmental benefits as removing pollution from 240,000 mid-sized automobiles or planting 3.7 million trees.
- Reduced air emissions result in tremendous benefits to public health in Maryland. Emissions cause significant health problems among children, the elderly and people with compromised immune systems. Air pollution also has been linked to increased incidence of asthma in children. Cutting energy consumption reduces the emissions that heighten these health problems.

For more information, contact Dave Humphrey at State of Maryland at (410) 767-4652. For a complete State of Maryland Report, connect to the Leonardo Academy at www.cleanerandgreener.org.